



PTO/SB/21 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	10/621,206
		Filing Date	July 15, 2003
		First Named Inventor	James T. KEALEY
		Art Unit	1645
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	8 pages + 14 references	Attorney Docket Number	300622008800

ENCLOSURES (Check all that apply)

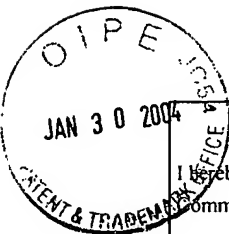
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	<ul style="list-style-type: none">Form PTO-1449 (original + 1 copy (4 pages total))14 ReferencesReturn Receipt Postcard
<input checked="" type="checkbox"/> Information Disclosure Statement (3 pages)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)		
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	MORRISON & FOERSTER LLP (Customer No. 25226) Eric H. Witt - 44,408
Signature	
Date	January 28, 2004

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 1/28/04 Signature: (Mei Y. Leung)



PATENT
Docket No. 300622008800

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on January 29, 2004.


Mei Leung

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

James T. KEALEY et al.

Serial No.: 10/621,206

Filing Date: July 15, 2003

For: METABOLIC PATHWAYS FOR
STARTER UNITS IN POLYKETIDE
BIOSYNTHESIS

Examiner: Not Yet Assigned

Group Art Unit: 1645

INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Pursuant to the USPTO notice dated July 11, 2003, waiving the requirement under 37 C.F.R. § 1.98 (a)(2)(i) to provide copies of U.S. Patents and U.S. Published Applications, copies of those references numbered 1 through 4 are not submitted. Copies of foreign patent documents and non-patent literature are submitted herewith in accordance with 37 C.F.R. § 1.98 (a)(2). The Examiner is requested to make these documents of record.

This Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of __ is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of __ is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

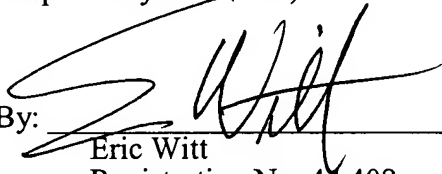
Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 300622008800. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: January 28, 2004

Respectfully submitted,

By: 
Eric Witt
Registration No. 44,408

Morrison & Foerster LLP
755 Page Mill Road
Palo Alto, California 94304-1018
Telephone: (650) 813-5755
Facsimile: (650) 494-0792

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 300622008800	Application Number 10/621,206
	Applicant James T. KEALEY et al.	
	Filing Date July 15, 2003	Group Art Unit 1645
	Mailing Date January 28, 2004	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	02/22/2002	60/358,936	Santi et al.			
	2.	10/13/2000	09/687,855	Khosla et al.			
	3.	10/27/2000	09/699,136	Santi et al.			
	4.	09/30/2003	6,627,427	Katz et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	5.	01/23/1997	WO 97/02358	WIPO			
	6.	01/28/1999	WO 99/03986	WIPO			
	7.	04/19/2001	WO 01/27306	WIPO			
	8.	05/03/2001	WO 01/31035	WIPO			
	9.	05/03/2001	WO 01/31049	WIPO			
	10.	09/06/2002	WO 02/068613	WIPO			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	11.	Blattner, F.R. et al. (1997). "The Complete Genome Sequence of <i>Escherichia coli</i> K-12," <i>Science</i> 277:1453-1468.
	12.	Chapman-Smith, A. et al. (1994). "Expression, Biotinylation and Purification of a Biotin-Domain Peptide From the Biotin Carboxy Carrier Protein of <i>Escherichia coli</i> Acetyl-CoA Carboxylase," <i>Biochem. J.</i> 302:881-887.
	13.	Dayem, L.C. et al. (2002). "Metabolic Engineering of a Methylmalonyl-CoA Mutase-Epimerase Pathway for Complex Polyketide Biosynthesis in <i>Escherichia coli</i> ," <i>Biochemistry</i> 41:5193-5201.
	14.	Kozak, M. (1991). "Structural Features in Eukaryotic mRNAs That Modulate the Initiation of Translation," <i>The Journal of Biological Chemistry</i> 266(30):19867-19870.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449

Docket Number 300622008800

Application Number 10/621,206

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Applicant

James T. KEALEY et al.

Filing Date July 15, 2003

Group Art Unit 1645

Mailing Date January 28, 2004

15.

Link, A.J. et al. (1997). "Methods of Generating Precise Deletions and Insertions in the Genome of Wild-Type *Escherichia coli*: Application to Open Reading Frame Characterization," *J. Bacteriol.* 179(20):6228-6237.

16.

Pfeifer, B.A. et al. (2001). "Biosynthesis of Complex Polyketides in a Metabolically Engineered Strain of *E. coli*," *Science* 291:1790-1792.

17.

Rodriguez, E. and Gramajo, H. (1999). "Genetic and Biochemical Characterization of the α and β Components of a Propionyl-CoA Carboxylase Complex of *Streptomyces coelicolor* A3(2)," *Microbiology* 145:3109-3119.

18.

Vallari, D.S. et al. (1987). "Regulation of Pantothenate Kinase by Coenzyme A and Its Thioesters," *The Journal of Biological Chemistry* 262(6):2468-2471.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.